

Appl. No. 10/049,415
Response dated: September 16, 2005
Reply to Office action of June 16, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1. (Currently Amended) A signal processing unit comprising:
at least ~~two~~ one inputs; and
at least ~~two~~ one early pattern generators for defining a predefined early pattern generation,
each of said at least ~~two~~ one early pattern generators being connected to at least one of said at
least ~~two~~ one inputs, each of said at least ~~two~~ one early pattern generators establishing an output
having N directional components, each of said N directional components of said outputs being
added to form at least one signal having N directional components.
2. (Currently Amended) The signal processing unit according to claim 1, further
comprising a direction rendering unit with an input for at least one of said at least signals having
N directional components, said direction rendering unit establishing P channel output signals on
an output of the direction rendering unit corresponding to input signals having N directional
components.
3. (Currently Amended) The signal processing unit according to claim 2, wherein said P
channel output signals are established in such a way that said P channel output signals
correspond to a P-channel trans- or bin-aural representation of said at least one ~~input~~ signals
having N directional components.
4. (Currently Amended) The signal processing unit according to claim 2, wherein said P
channel output signals are established in such a way that said P channel output signals
correspond to an experience-based P-channel representation of said at least one ~~input~~ signals
having N directional components.

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5. (Currently Amended) The signal processing unit according to claim 21, further comprising:

a circuit having S inputs and P outputs, S being at least two and said S inputs being connected to said at least two inputs~~being individual input channels for S input sources~~, said P outputs comprising a P-channel late reverberation signal; and

a summing unit for adding said late reverberation signal to said established P-channel output signals of said direction rendering unit.

6. (Previously Presented) A direction rendering unit comprising an input for N directional signals, said direction rendering unit establishing a P channel output signal on an output of the direction rendering unit corresponding to input signals having N directional components.

7. (Previously Presented) The direction rendering unit according to claim 6, wherein said P channel output signals are established in such a way that said P channel output signals correspond to a P-channel trans-aural representation of said input signals having N directional components.

8. (Previously Presented) The direction rendering unit according to claim 6, wherein said P channel output signals are established in such a way that said P channel output signals correspond to an experience-based P-channel representation of said input signals having N directional components.

9. (Previously Presented) An early pattern generation mixer comprising:

M inputs each of which receives early pattern signals comprising N directional components; and

at least one output for transmitting an N-directional early pattern signal, said N-directional early pattern signal being established by adding said M inputs.

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10. (Currently Amended) A signal processing unit comprising:

at least two inputs; and

at least two space processors for defining at least a generation of an early pattern, each of said at least two space processors being connected to at least one of said at least two inputs, each of said at least two space processors establishing an output having N directional components, each of said N directional components of said outputs being added to form at least one signal having N directional components.

11. – 13. (Canceled)

14. (Currently Amended) A signal processing unit comprising:

at least two inputs; and

at least two reverberation units for defining a predefined reverberation generation, each of said at least two reverberation units being connected to at least one of said at least two inputs, each of said at least two reverberation units establishing an output having N directional components, each of said N directional components of said outputs being added to form at least one signal having N directional components.